BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore.

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QUALITY CONTROL REPORTS FOR

CIVIL WORKS

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/WNo.10/KRIDL/CEMENT/2014-15

Date: 13.10.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/WNo.10/KRIDL/SAND/2014-15 : 13.10.2014

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TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014

Date of Testing : 13.10.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	273	13.65	18.55	81.5	75-100
1.18	498	24.90	43.45	56.6	55-90
600 Micron	382	19.10	62.55	37.5	35-59
300 Micron	515	25.75	88.30	11.7	8-30
150 Micron	168	8.40	96.70	3.3	0-10

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Job No.: CTCE/BBMP/WNo.10/KRIDL/AGG/2014-15 : 13.10.2014

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014

Date of Testing : 13.10.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	975	3.84	3.84	96.16	95-100
20	16325	64.27	68.11	31.89	30-70
10	5024	19.78	87.89	12.11	10-35
4.75	2612	10.28	98.17	1.83	0-5

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Job No.: CTCE/BBMP/WNo.10/KRIDL/STEEL/2014-15 15.10.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Date of Test	:	15.10.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	553	13.10	O.K	O.K

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Job No.: CTCE/BBMP/WNo.10/KRIDL/STEEL/2014-15 15.10.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	:	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Date of Test	:	15.10.2014
Technical Reference	:	IS: 1786-2008

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Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.25	O.K	O.K

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Job No.: CTCE/BBMP/WNo.10/KRIDL/CUBE/2014-15 17.11.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.10.2014	17.11.2014	8.098	476.8	21.19
2	20.10.2014	17.11.2014	8.125	512.4	22.77
3	20.10.2014	17.11.2014	8.214	490.7	21.81

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Job No.: CTCE/BBMP/WNo.10/KRIDL/CUBE/2014-15 20.11.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Sample ID	: RCC Drain Concrete
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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2014	20.11.2014	8.138	482.4	21.44
2	23.10.2014	20.11.2014	8.218	516.7	22.96
3	23.10.2014	20.11.2014	8.316	492.4	21.88

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QUALITY CONTROL REPORTS FOR

WET MIX MACADAM(WMM)

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8735**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	245	245	2.8	97.2	95-100
22.4	3157	3402	38.9	61.1	60-80
11.2	1498	4900	56.1	43.9	40-60
4.75	1265	6165	70.6	29.4	25-40
2.36	915	7080	81.1	18.9	15-30
0.600	755	7835	89.7	10.3	8-22
0.075	635	8470	97.0	3.0	0-8

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8785**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	190	190	2.2	97.8	95-100
22.4	3210	3400	38.7	61.3	60-80
11.2	1495	4895	55.7	44.3	40-60
4.75	1035	5930	67.5	32.5	25-40
2.36	925	6855	78.0	22.0	15-30
0.600	725	7580	86.3	13.7	8-22
0.075	890	8470	96.4	3.6	0-8

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04.11.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014

Date of Testing : 04.11.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): **8930**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	225	225	2.5	97.5	95-100
22.4	3215	3440	38.5	61.5	60-80
11.2	1520	4960	55.5	44.5	40-60
4.75	1050	6010	67.3	32.7	25-40
2.36	895	6905	77.3	22.7	15-30
0.600	835	7740	86.7	13.3	8-22
0.075	845	8585	96.1	3.9	0-8

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04.11.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.11.2014

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	300	
4	Aggregate Impact value = percent fines	21.32	21.67	
	100* (W_2/W_1)%			21.49

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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04.11.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	**Technical Manager,** KRIDL, Bangalore.
Name of the Work	Improvements and asphalting to cross roads of Kempanna Layout (Reliance Tower) in Ward No. 10 (Doddabommasandra) Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	EE/BTP/KRIDL/WO/677/2013-14 Dated: 05.03.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	04.11.2014

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	383	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	300	
4	Aggregate Impact value = percent fines	21.93	22.08	
	100* (W_2/W_1)%			22.01

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Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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